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ABSTRACT

This selected annotated list of 39 sources of information on educational software for higher education is a revision of a list prepared at EDUCOM '85 and includes a number of additional sources. The sources, which provide access to both commercial and unpublished faculty software, are listed under five headings: General Sources; Software for Particular Machines; Software for Specific Disciplines; Software Publishers of Note; and Software Catalogs from Universities. Databases, directories, vendor catalogs, books, and university project reports are among the sources listed. Each annotation includes purchase information and some entries include the price. (DJR)

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INFORMATION SOURCES ON SOFTWARE FOR HIGHER ED

Annotated by Peggy Seiden

5 September 1986

The following is a selective annotated list of sources of information on educational software for higher education. The list was compiled by attendees to the Special Interest Group on Software Information at EDUCOM '85 in Austin, Texas. Since that time a number of other sources have been surfaced which we include in this revised edition.

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GENERAL SOURCES

ADCIS-NET Courseware Directory. Available through Compuserve.

This online database of courseware contains detailed information on both commercial and non-commercial courseware. Developers are responsible for providing information about their packages. The database has been available since July 1985 and so far contains approximately 50 records.

"Computer Software," **Chronicle of Higher Education**. Washington D.C.: The Chronicle. weekly

The Chronicle publishes lists of academic and administrative software for higher education. A brief description and availability information is provided for each program listed. The inclusion of a particular program does not consist of a recommendation, but rather the editor includes programs about which she has received information.

Directory of Computer Software. Springfield, VA.: NTIS, 1985-.

The directory contains abstracts of 1300 machine-readable computer programs compiled in cooperation with more than 100 Federal agencies and/or contractors. Included are 700 new programs recently received from the National Energy Software Center. The computer software offered by NTIS, which is available to the public, was created by Federal agencies to meet their diverse but quite specific objectives. The software is provided without installation or maintenance support and may require modification. The catalog is arranged by broad subject categories and the programs are also indexed by agency, hardware and language.

Educational Technologies Database Project. Contact: Guttman Library, Appian Way, Harvard University, Cambridge, MA 02138.

The Educational Technologies Database is a directory of information on the uses of microcomputers in educational settings nationwide. Data will be provided about instructional, administrative and research applications from pre-school through post-secondary institutions and in non-institutional settings. The directory will be offered online through Compuserve.

Index to Computer-Based Learning Milwaukee: Univerity of Wisconsin, Milwaukee, (1984). Contact: The Index, University of Wisconsin, Milwaukee, Educational Communications Division, P.O. 413, Milwaukee, WI, 53201. (414)963-5478. $40.00/hardcopy, $15.00/fiche.

The index, published every few years since 1969, contains educational computing programs for all levels of education, for mainframes, mini and microcomputers from both commercial and non commercial sources. Information on each program or series of programs includes descriptions, system requirements and availability information. Programs are listed by title and are cross-referenced by source, programming category, machine and language.

IPL: International Program Library Conference. Contact: Candice Willut, EDUCOM, Princeton, NJ 08540 (609)734-1915.

The QZ Computing Centre at the University of Stockholm has created a permanent group of online conferences for the exchange of information about existing software systems for

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universities. One conference handles general requests for availability information and information on user's experiences with particular packages. A number of special interest conferences have also been created including one on Mathematical Software and there is also the ability to create others. Participants include software librarians at universities or research institutions in the U.S. and Europe.

Software Publications Library System : The Catalog of Software Catalogs. Duluth: College of St. Scholastica, 1986-.

This catalog attempts to pull together the existing software information sources most useful for higher education. It is categorized into Major Catalogs, Minor Catalogs, which are discipline oriented and free of charge, Software Magazines, Vendor and Supplier Magazines. Each source has been reviewed and critiqued by Braun and he has ranked the top 5 major catalogs. The project was funded by the Northwest Area Foundation in response to requests. The information on each source includes title, publisher, cost and rating. Contact: Richard E. Braun, Northwest Area Foundation Grant, College of St. Scholastica, Science 206, 1200 Kenwood Avenue, Duluth, MN. 55811.

Softwhere : Educational Courseware. Minneapolis: Moore Data Management Services. Softwhere advertises itself as the most complete catalog of computer programs for education. This volume includes: Computer literacy, economics, foreign languages, home ec, industrial arts, dirver's training, language development, mathematics, music, occumpational, physical education, reading, science, social studies, special studies, teacher authoring and typing. The description includes full system requirements, abstract, cost, source code availability, data on the number of installations, training, support and documentation.

T.E.S.S.: The Educational Software Selector. EPIE Institute. New York: Teachers College Press. (1984 -) *annual*

The EPIE Institute has compiled this listing of some 6000 commercial software products for schools and colleges. Contents are arranged by disciplines and specific subjects within disciplines. Information on each program includes release date; grade level; uses; scope; a brief description; system requirements; availability; review sources and consumer contacts. A section on software suppliers provides information on policies of vendors towards previews, copying, etc.

SOFTWARE FOR PARTICULAR MACHINES

Academic Courseware Exchange Catalog. Santa Barbara: Kinko's Service Corporation, 1986-.

Kinko's is now providing an outlet for much of the high quality software in higher education which has been developed at universities for Apple II and Macintosh computers. For the first time developers have a way to distriubte their courseware easily and inexpensively to other colleges and universities and to realize returns as well. Courseware will be priced from $8 to $25. Courseware and documentation has been reviewed for conformance with testing and formating criteria and has been field tested for at least one term as well as tested against specific guidelines. For information call 800-235-6919.

AEP Database Project. Contact: Wayne Danielson, Project Quest, 102 Goldsmith Hall, University of Texas, Austin, TX, 78717. (512)471-4900.

The IBM-Advanced Education Projects (AEP) consortium is developing a database of IBM projects under development or completed, at AEP member schools. At the present time only AEP member schools have access to the database, which is being distributed on disks to members and has been put up as a bulletin board at the University of Washington. AEP is also considering distribution of the software which has been developed under AEP.

Burroughs 1984/85 - Higher Education Software Catalog. Detroit, MI: Burroughs Corporation.

The catalog lists software developed at universities for Burroughs machines, though not

published by Burroughs. In addition to descriptions of the software, information is provided about the availibility of the software and costs. as to whether the software

The Clearinghouse. Iowa State University, Ames, Iowa 50011.
The Clearinghouse is a non-profit distribution center that, for the first time, will make user-developed software that runs on the Digital VAX family of computers widely available to the academic community at moderate prices. ISU is currently soliciting programs from develpers, who will be expected to provide a reasonable level of ongoing support in exchange for royalties. The clearinghouse will be administered by ISU with management and technical consultation from DEC.

Educational Software Directory for IBM Personal Computers. Tallahassee, Fl.: Electronic Communications, Inc. (1985 -).
This directory contains over 2000 product descriptions for the IBM PC, XT, Portable PC, PCjr and AT furnished by some 370 software publishers. The directory is arranged by subject areas with indexes by publisher and machine. Each listing provides a brief description, educational level, machine requirements and availability information.

IDEAS: Education Software Referral Catalog. 5th ed. Marlboro, Mass.: Digital Equipment Corporation. (February, 1984)
IDEAS includes programs which run under the VAX/VMS and RSTS/E DIGITAL operating systems. The software comes from a variety of third party sources and the DECUS Program Library. The catalog is divided into 3 sections: 1)Instructional Applications, 2)Administrative Applications and 3)System Utiliities. Each listing contains availability information and a detailed description of the program's capabilities.

Macintosh Wheels for the Mind: An Apple University Consortium Publication. Chestnut Hill, Mass.: Boston College (1985 -).
Wheels is a journal/directory for college and university Macintosh users. In addition to relevant news items and hints for using Macintosh applications, it contains a listing of Macintosh software development work and commercial Macintosh products. The development projects are organized according to subject area (eg. biology, history & politics). Information included about each project includes name, contact person, a brief abstract and the status of the project.

SOFTWARE FOR SPECIFIC DISCIPLINES

CALICO, Computer Assisted Language Instruction Consortium Database. Contact: Sheila Vasquez, Project CALICO, Brigham Young University, Provo, UT, 84602.
The CALICO database is available to subscribers to the CALICO journal. The database contains several files including research and development projects, a software listing and a file on people resources related to computer assisted language instruction.

Center for Computer-Assisted Legal Instruction (CCALI). **Catalog of Exercises.** Contact: CCALI, 229 19th Ave., S., Minneapolis, MN 55455. (612)373-5352.
The association coordinates the use of computerized instructional exercises in law. The catalog contains exercises to run on most DOS or CP/M based micros on a variety of subjects including trial advocacy, procedure, torts, professional responsibility and evidence.

College CAD/CAM Consortium. Contact: Eugene R. Chenette, Assoc. Dean of Engineering, University of Florida, Gainsville, FL, (904)392-0941 or Chenette@UFENG.
The consortium, founded in 1980 originally consisted of 12 colleges of engineering (now 22). Member schools have each developed at least one software module. A workshop to be scheduled for next year has as one of its goals the production of a catalog of these projects.

College Mathematics Journal Database of Software. Contact: David Smith, Benedict College, Columbia, SC, 29204. (803)256-4220.

The database contains descriptions of over 400 software packages for instructional purposes in mathematics at both the secondary and college level. The database is on Appleworks and the authors will supply copies if requested. A list of the college level software will be published next year in the journal.

Computing in Undergraduate Language Studies: Software Guide. Gettysburg, Penn.; Gettysburg College Academic Computer Center. (July 1985).
This is a guide to 400 commercially available software programs available for the the Apple II, IBM, Commodore and Radio Shack microcomputers. The guide includes some basic utility and word processing programs as well as CAI on languages and literature. The listings are arranged alphabetically by title and provide brief descriptions and availability information. There is a vendor address list and indexes by machine type and language.

Library Acquisitions: Practice and Theory : Software Survey Section. Pergamon Press, 1986-.
This new section of the journal has as its objective the open exchange of information on software programs unique to librarianship and library science. The hope is to uncover much of the "homegrown" software which has been developed by sceintists and researchers. The information is being collected via a survey published in the journal. It will be published as is without comments or reviews by the editors. This is one in a series of software survey sections introduced by Pergamon in many of their research journals.

Moreen, Denis C. **Music Programs for the Apple Computer: A Directroy of Computer-Assisted Instructional Materials in the Field of Music Education.** Belmont, Calif.: College of Notre Dame, April 1983.
The directory contains software programs desgned to run of the Apple II Plus computer. The list was compiled from educational directories, commercial catalogs, journal articles and documentation. The catalog also provides lists of additional hardware needed to run some of the programs, together with prices, suppliers and sources for further information; a list of suppliers from whom hte software and hardware are available and a bibliography of publications giveing further information about the materials. To get the directory send $5.00 to the author at College of Notre Dame, Belmont, CA 94002, (415) 593-1601.

National Science Teachers Association. **Educational Resources for Microcomputers: The 1985 Science and Math Software Directory.** Washington D.C.: Information, Inc. 1986.
This catalog is a compilation of over 400 abstracts form the Microsearch database. The book covers software entered into the database during 1985. The directory contains information from two sources: product descriptions from nearly 120 manufactruers, and review articles from 30 microcomputer-related publications. The directory is divided into four sections: 1)Life Sciences, 2)Physical Sciences, 3)Arithmetic and Elementary Mathematics and 4)Advanced Mathematics and Applied Sciences. The programs are indexed by subject and product name, manufacturer, system requirements and source. For each product there may be either a description, a review or both. The 1984 edition covered all areas of education. The abstracts represent only a portion of the total Microsearch database which is available through the Source, CompuServe and ORBIT.

Olsen, Solveig, ed. **Computer-Aided Instruction in the Humanities.** New York: Modern Language Association, 1985.
This work contains 2 sections: 1)Applications and Challenges discusses specific applications of computing in differentr areas as well as issues such as software and hardware evaluation, 2)Sources and Resources which contains a section on software in use at specific universities and contact people. There is an index to the programs by discipline.

Patient Management Simulations - A Resource Catalog. Learning Resource Center, Ann Arbor: University of Michigan Medical School.
This catalog represents a comprehensive look at simulated patient management problems

(PMPs) suitable for health professions education. Based on the findings of a national survey, this is a vital resource outlining the availability, content, and instructional characteristics of patient management simulations. It leasts nearly 100 interactive programs dealing with patient strategies and contains a section on available authoring systems for creating custormized PMPs. It includes details regarding distributors and developers, system requirements and suggested audiences.

Project SERAPHIM Software List: Instructional Computer Programs -- Chemistry. 5th ed. Ypsilanti, Mich.: Project SERAPHIM. (February 1985).
The catalog is a compilation of all chemistry-related instuctional computer programs, commercial and non-commercial and Project SERAPHIM materials, about which the editors were able to gather complete information. The catalog is arranged by machine and has subject, author and publisher indexes as well as an index to reviewed software. The project also publishes a separate catalogue of its own materials that contains fuller descriptions. To get either contact: Project SERAPHIM, Department of Chemistry, Eastern Michigan University, Ypsilanti, MI. 48197. (313) 487-0368.

Social Science Software: 1986 Catalog. Raleigh, N.C.: NCSU Software. (1985).
The programs in this catalog are those which have been contributed to the Social Science Research and Instructional Computing Laboratory of North Carolina State University for non-exclusive distribution. All products are tested inhouse. Programs provided include

Wilkins, Colette, ed. **National Consortium for Computer-Based Music Instruction 1984 Courseware Directory.** Contact: Michael Arenson, Dept. of Music, University of Delaware, Newark, Delaware, 19716. (302)451-8485.
The directory describes 41 software packages, the majority of which are suitable for college level instruction. The information on each program is extensive and includes: availability information, configuration, review and usage information and abstract.

SOFTWARE PUBLISHERS OF NOTE

CONDUIT: Catalog of Educational Software. Iowa City: University of Iowa.
semi-annual
CONDUIT's catalog lists over 80 packages for Apple II and beginning with their 1985-86 catalog, software for the IBM PC. Software is secondary through college level developed generally at colleges. CONDUIT will provide sources of reviews for packages upon request.

PLATO: The Catalog. Bloomington, MN: Control Data Publishing Company, 1985.
The catalog lists PLATO educational products, both courses and modules which are available for one or more of the following: IBM PC, Apple IIe/II Plus and Control Data 110. Programs are available for computer literacy, computer science, foreign language, math, science and agriculture.

SOFTWARE CATALOGS FROM UNIVERSITIES

A number of universities have compiled catalogs of software which has been or is being developed on their campuses. If you are aware of others please provide me with that information.

Carnegie-Mellon University. **Educational Computing Projects.** Published every 12 months. Available from: CDEC, Carnegie-Mellon University, Pittsburgh, PA 15213.

Dartmouth College. **Dartmouth College Courseware Catalog.** Version 2.1, January 13, 1986. Available from: Courseware Development Group, 1 McNutt Hall, Dartmouth College, Hanover, NH 03755.

Massachusetts Institute of Technology. **PROJECT ATHENA**. Summary descriptions published every 6-12 months. Available from: Project Athena, Massachusetts Institute of Technology, E4-443, Cambridge, MA 02139.

University of Delaware. **Courseware Catalog of Published Lessons** and (10th Summative Report of the Office of Computer-Based Instruction). The latter lists lessons under development. Available from: Deborah G. Mellor, Office of Computer-Based Instruction, University of Delaware, Newark, DE 19716.

University of Illinois. **Plato Lesson Catalog**. Available from: University of Illinois, Dept. of CERL, 252 Engineering REsearch Lab, 103 S. Matthews Ave., Urbana, Illinois 61801. ATTN: Nancy Kinsel. $20.00 pre-paid.

University of Illinois. **Project EXCEL, 1985 Annual Report**. Available from: Office of the Chancellor, University of Illinois, Urbana-Champaign, Illinois.

University of North Carolina at Chapel Hill. **The UNC/IBM Project: Courseware Project Descriptions**. Available from: Courseware Development Project, Microcomputing Support Center, 232 Davis Library 080A, University of North Carolina, Chapel Hill, NC 27514.

University of Texas at Austin. **Project Quest - Annual Report**. Contact: Wayne Danielson, Project Quest, 102 Goldsmith Hall, University of Texas, Austin, TX (512)471-4900.

*The MECC catalog was not included because its audience is largely primary and secondary schools. ERIC was not included because its purpose is much broader in scope than any sources listed since it addresses education literature in general. ANTEM, a program exchange mechanism in France, was excluded because detailed information on that program was not available at the time of publication.